## IN THE CLAIMS

Please amend the claims as follows:

1. (previously presented) A method for browser-enhanced web crawling associated with a network of hub processing units coupled to a plurality of information processing units over a network, the method executed by a web crawler on a hub processing unit associated with the network comprising:

retrieving a web document at an address, and extracting contents of the web document for rendering an intermediate dynamically constructed in-memory webpage representation of the web document at a hub processing unit which is formatted as if displayed for viewing on an end-user's web browser;

loading secondary documents associated with the web document in order to render the secondary documents as part of the in-memory webpage representation, wherein the secondary documents include one or more images with textual content embedded therein, wherein the hub processing unit renders the in-memory webpage prior to analyzing and summarizing the in-memory webpage;

analyzing and summarizing the in-memory webpage representation to produce a text map for the webpage document of the textual contents; and

using optical character recognition on the images to extract textual content for adding to the textual map for the webpage document.

2. (previously presented) The method as defined in claim 1, wherein the retrieving the web document at an address further comprises retrieving a document at an address selected from the group of addresses consisting of a nodal address, a network address, a URL and equivalents.

3. (previously presented) The method as defined in claim 1, wherein the one or more images with textual content embedded therein include at least one of an in-line GIF image and an in-line JPEG image.

4. (previously presented) The method as defined in claim 1, wherein the loading secondary documents further comprises the loading of secondary documents including one or more Java applets with textual content embedded therein.

5. (previously presented) The method as defined in claim 1, wherein the loading secondary documents further comprises the loading of secondary documents including web documents selected from the group of documents consisting of in-line frames, frames, and equivalents.

6. (previously presented) The method as defined in claim 4, wherein the loading secondary documents further comprises the loading of secondary documents including one or more Java Script components with textual content embedded therein.

7. (previously presented) The method as defined in claim 1, wherein the retrieving the web document further comprises performing the following sub-steps of:

initializing a first list with seed values;

checking if there are any URLs to be processed and in response that any URL exists to be processed then performing the following sub-steps of:

determining if a URL is in a second list; and in response that a URL is not in the second list then performing the following sub-steps of:

inserting the URL into the first list;

scheduling the URL for crawling;

crawling the URL when scheduled to do so;

removing the URL from the first list after the scheduled crawling;

entering the URL into the second list; and

repeating the checking step until there are no more URLs to be processed;

where if the determining step determines that the URL is in the second list then repeating the checking step until there are no more URLs to be processed.

8. (original) The method as defined in claim 7, wherein the sub-step of initializing a first list with seed values further includes the list being a URL pool.

9. (original) The method as defined in claim 7, wherein the sub-step of determining if a URL is in a second list further includes the second list being a visited pool.

10. (previously presented) The method as defined in claim 7, wherein the sub-step of crawling further comprises the sub-steps of:

issuing an HTTP command to a web server named in the URL;

receiving contents of an HTML page as a result of the issued HTTP command; and

passing on the contents of the HTML page to a Page Rendering subroutine.

11. (original) The method as defined in claim 10, further including the sub-steps performed by the Page Rendering subroutine comprising:

receiving the contents of the HTML page in the Page Rendering subroutine;

building an in-memory representation of a Layout for the HTML page and if more data is needed to properly form the representation, then performing the sub-steps of:

requesting additional web-based information;

gathering this additional web-based information;

inserting any URLs associated with this additional web-based information into the second list and a URL cache;

building a final amended representation; and

forwarding the final amended representation to an Extraction subroutine;

wherein, if no more data is needed to properly form the in-memory representation, then forwarding the in-memory representation to the Extraction subroutine.

12. (original) The method as defined in claim 11, further including the sub-steps performed by the Page Extraction subroutine comprising:

accessing a set of memory structures of the Page Renderer;

copying a text portion of the structures into a text map;

inspecting any in-line GIF and JPEG image references in the memory structures;

extracting alternate text attributes;

adding the alternate text attributes to a text map;

invoking an optical character recognition engine;

analyzing any in-line GIF and JPEG images using the optical character recognition engine for text content;

extracting text content from the GIF and JPEG images;

adding text content from the images to the text map; and

forwarding the text map to a Page Summarizer subroutine.

13. (original) The method as defined in claim 12, further including the sub-steps performed by the Page Summarizer subroutine comprising:

receiving a text map from the Page Extractor subroutine;

processing the text map in an application-specific manner;

applying data extraction patterns to the text map;

translating resultant data from the applying step;

forwarding any URLs present in the text map to a manager subroutine; and

forwarding any extracted data and metadata to application logic.

14. (previously presented) A computer readable medium including programming instructions, the programming instructions including instructions for browser-enhanced web crawling associated with a network of hub processing units coupled to a plurality of information processing units over a network, the browser enhanced web crawling instructions on the computer readable medium comprising:

retrieving instructions for retrieving a web document at an address, and extracting contents of the web document for rendering an intermediate dynamically constructed in-memory webpage representation of the web document at a hub processing unit which is formatted as if displayed for viewing on an end-user's web browser;

loading instructions for loading secondary documents associated with the web document in order to render the secondary documents as part of the in-memory webpage representation, wherein the secondary documents include one or more images with textual content embedded therein, and wherein the hub processing unit renders the in-memory webpage prior to analyzing and summarizing the in-memory webpage;

analyzing and summarizing instructions for analyzing and summarizing the in-memory webpage representation to produce a text map for the webpage document of the textual contents therein; and

using optical character recognition on the images to extract textual content for adding to the textual map for the webpage document.

15. (previously presented) The computer readable medium as defined in claim 14, wherein the retrieving instructions for retrieving a web document at an address further comprises retrieving instructions for retrieving a document at an address selected from the group of addresses consisting of a nodal address, a network address, a URL and equivalents.

16. (previously presented) The computer readable medium as defined in claim 14, wherein the one or more images with textual content embedded therein include at least one of an in-line GIF image and an in-line JPEG image.

17. (previously presented) The computer readable medium as defined in claim 14, wherein the loading secondary documents further comprises the loading of secondary documents including one or more Java applets with textual content embedded therein.

18. (previously presented) The computer readable medium as defined in claim 14, wherein the loading instructions for loading secondary documents further comprises loading instructions for loading of secondary documents including web documents selected from the group of documents consisting of in-line frames, frames, and equivalents.

19. (previously presented) The computer readable medium as defined in claim 17, wherein loading secondary documents further comprises the loading of secondary documents including one or more Java Script components with textual content embedded therein.

20. (previously presented) A browser-enhanced web crawling unit associated with a network of a plurality of hub processing units coupled to a plurality of information processing units over a network, the browser enhanced web crawling unit on a hub processing unit comprising:

a retrieval unit for retrieving a web document at an address, and extracting contents of the web document for rendering an intermediate dynamically constructed in-memory webpage representation of the web document at a hub processing unit which is formatted as if displayed for viewing on an end-user's web browser;

a loader for loading secondary documents as required associated with the web document in order to render the secondary documents as part of the in-memory webpage representation, wherein the secondary documents include one or more images with textual content embedded therein, wherein the hub processing unit renders the in-memory webpage prior to analyzing and summarizing the in-memory webpage;

a summarizer for analyzing and summarizing the in-memory webpage representation to produce a text map for the webpage document of the textual contents therein; and

an optical character recognition engine for use on the images to extract textual content for adding to the textual map for the webpage document.